

## FRBR-Library Reference Model: FRBR, FRAD & FRSAD – Updated & Consolidated

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## FRBR-LRM

- A single, consistent model covering all aspects of bibliographic data
- Under development by IFLA since 2010
  - Worldwide review underway: comments due May 1
  - Approval expected in late 2016
- Remains a high-level conceptual model
  - Uses entity-relationship modeling framework
  - Focused on user tasks, not library operations
- Based on, and fully compatible with
  - CIDOC Conceptual Reference Model
  - Object-oriented FRBR (FRBRoo)

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## What's Included?

- Terms and definitions that are applicable in a generic way
  - To all types of resources
  - To all relevant entities
- Entities serving as domain or range of at least one significant relationship that couldn't be further generalized

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## What's Excluded?

- Data elements that are
  - Too specialized
  - Specific to certain types of resources (with a few exceptions)
- Administrative metadata that does not support user tasks

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## (End-)User Tasks

- From FRBR:
  - Find
  - Identify
  - Select
  - Obtain
- From FRSAD:
  - Explore
- Deprecated:
  - FRAD:Contextualize (part of Explore)
  - FRAD:Justify (a library staff task)

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## Entities

- Key conceptual objects of interest to users
  - Only 11 included
- Defined in general, inclusive terms
- Superclasses/subclasses introduced
  - Any instance of a subclass is also an instance of the superclass (the "IsA" relationship)
    - Any relationship or attribute that applies to the superclass also applies to subclass without having to be declared
    - But not vice versa

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## Entities

Entity	Definition	Source
<i>Res</i>	Any entity in the universe of discourse	Superclass; <b>Revision</b> of FRSAD: <i>Thema</i>
<i>Work</i>	The intellectual or artistic content of a distinct creation	FRBR Group 1
<i>Expression</i>	A distinct constellation of signs conveying intellectual or artistic content	FRBR Group 1
<i>Manifestation</i>	A set of all carriers that are assumed to share the same characteristics as to intellectual or artistic content and aspects of physical form. The set is defined by both the overall content and the production plan for its carrier or carriers	FRBR Group 1

## Entities

Entity	Definition	Source
<i>Item</i>	A physical object carrying signs resulting from a production process and intended to convey intellectual or artistic content	FRBR Group 1
<i>Nomen</i>	A designation by which an entity is known	<b>Merger</b> of FRSAD: <i>Nomen</i> & FRAD: <i>Name</i>
<i>Agent</i>	An entity capable of exercising responsibility relationships relating to <i>works</i> , <i>expressions</i> , <i>manifestations</i> or <i>items</i>	<b>New</b> : superclass of <i>Collective Agent</i> & <i>Person</i>

## Entities

Entity	Definition	Source
<i>Collective Agent</i>	A gathering or organization of persons bearing a particular name and acting as a unit	<b>New</b> : encompasses FRAD: <i>Family</i> & FRBR/FRAD: <i>Corporate Body</i>
<i>Person</i>	An individual human being	FRBR Group 2 ( <b>not</b> FRAD: <i>Person</i> )
<i>Place</i>	A given extent of space	Repurposed from FRBR: <i>Place</i>
<i>Time-span</i>	A temporal extent having a beginning, an end and a duration	<b>New</b> Not related to FRBR: <i>Event</i>

## Deprecated Entities

- FRBR Group 2: *Family, Corporate Body*
  - Part of *Collective Agent*
- FRBR Group 3: *Concept, Object, Event, & Place*
  - Removed
- FRAD: *Identifier & Controlled Access Point*
  - Considered types of *Nomen*
- FRAD: *Rules & Agency*
  - Library staff tasks; not in scope

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## Attributes

- Data describing an entity
  - Can be represented as a string or a thing
  - LRM not exhaustive: retains only the most significant (37 in total)
    - None are required
    - Record if applicable, easily ascertainable & relevant
    - Repeatability not addressed
    - None defined for *Collective Agent* – just use those for *Agent*

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## *New:* Manifestation Statement

- A statement appearing in the manifestation and deemed to be significant for users to understand how the resource represents itself
  - Includes transcribed elements such as
    - Complete ISBD Area 1
    - Edition statement
    - Publication statement (or its individual parts)
    - Series statement
  - Can have sub-types

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## Relationships

- Links two entities and provides context for them
- LRM declares 34, in general, abstract way
  - Top level: **Res is associated with Res**
  - LRM implementations can introduce sub-types
  - Reciprocals
    - *Work* is part of *Work* // *Work* has part *Work*
- Chains & short-cuts:
  - *Person* IsA *Agent* + *Agent* created *Work*  
→ *Person* created *Work* [implicit]

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## Relationships

- WEMI still core:
  - *Work* is realized through *Expression*
  - *Expression* is embodied in *Manifestation*
  - *Manifestation* is exemplified by *Item*
- Added:
  - *Res* has appellation *Nomen*
  - *Res* has association with *Place*
  - *Res* has association with *Time-span*
- Subject relationship:
  - *Work* has subject *Res*

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## Relationships

- Responsibility relationships:
  - *Work* was created by *Agent*
  - *Expression* was created by *Agent*
  - *Manifestation* was created by *Agent*
  - *Manifestation* is distributed by *Agent*
  - *Manifestation* is produced by *Agent*
  - *Item* is owned by *Agent*
  - *Item* was modified by *Agent*

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## Relationships

- Other relationships (not a complete list)
  - *Work* is transformation of *Work*
  - *Nomen* is equivalent to *Nomen*
  - *Expression* was derived into *Expression*
  - *Manifestation* has reproduction  
*Manifestation*
  - *Collective Agent* succeeds *Collective Agent*
  - *Place* has part *Place*

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## New: Representative Expression

- If representative of the work (such as the original expression), this serves as the basis of the *Work* description
- Only one expression serves in this role
  - Includes important attributes used to identify the work – even though they are technically expression attributes
    - Language
    - Intended audience
    - Medium of performance
    - Key
    - Scale

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## Aggregates

- Three distinct types
  - Aggregate collections of expressions
    - Independently created, published together
  - Aggregates resulting from augmentation
    - Single work supplemented with dependent work(s) like a preface or illustrations
  - Aggregates of parallel expressions
    - Two language expressions of the same work, published together
- Not whole-part

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## Aggregating Work

- Not a discrete section of the resulting manifestation
  - May not even be an identifiable part
- Does not contain the ***aggregated works*** themselves
- Modeled as a *Manifestation* embodying multiple *Expressions*
  - *Works* and *Expressions* treated identically regardless of publication form
    - *Expressions* may be published alone, or with other expressions in a *Manifestation*

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## Serials

- Function like aggregates
- LRM regards any serial as a distinct instance of the *Work* entity
  - Any serial *Work* can be said to have only one *Expression* and only one *Manifestation*
  - *Work-to-Work* relationships link the paper & online editions of a journal
- Look to PRESSoo for a more specific conceptual model for serials

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## Impact on RDA?

- LRM will serve as a guide for further RDA development
  - As a faithful implementation, RDA will retain basic structure of the entities, relationships, and attributes
    - Will remove placeholder chapters for FRBR Group 3 entities
  - Expansions likely needed
    - Addition of specialized attributes, sub-types, etc. expected
  - Opportunity for other changes to structure of RDA instructions at the same time

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## More Information

- FRBR-LRM: IFLA website  
<http://www.ifla.org/node/10280?og=54>
  - FRBR-Library Reference Model
  - Transition Mappings
    - User Tasks, Entities, Attributes & Relationships  
*from FRBR, FRAD, FRSAD to FRBR-LRM*
- PRESSoo  
[http://www.ifla.org/files/assets/cataloguing/PRESSoo/pressoo\\_v1.2.pdf](http://www.ifla.org/files/assets/cataloguing/PRESSoo/pressoo_v1.2.pdf)
- Contact me: [kglennan@umd.edu](mailto:kglennan@umd.edu)

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## Questions?

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